Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Rain Water Racharging Pits		10	3.142x1.0x1.0		0.30	2.36	1591.43	3750.00
					Grand Total				8849225.00
					12% GST Charges				1061907.00
					1% PMC Charges				88492.25
					Miscesallaneous Charges				375.75
									10000000.00

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2018-19 and Data Rate.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Project Division, Yelahanka

Executive Engineer
Project Division, Yelahanka
BBMP, Bangalore

28/11/2020
Assistant Executive Engineer
Project Division, Yelahanka

Technical Sanction
Accorded for Rs 100.00 lakhs only
Head of A/C ..P0541....
CER NO :...356..... Dt:..27/03/2020

TA

CE (YNK)

Administrative Approval
Accorded For Rs.100.00 lakhs
Head of A/C....P0541....
CER NO :....76..... Dt:..07/03/2020

E.E. (Project)

7/3/2020

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work: Improvements to RCC Road and Drain and Slabs at Sampigehalli surrounding in Ward No.05

			Estimate Cost Rs.					10000000.00	
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in Ordinary Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH chapter 3. No. 143/ Item No. 19.1/ PWD SR 2018-19	Cum							
	For Culverts		4	6.20	2.10	1.20	62.50		
			1	20.00	2.10	1.20	50.40		
	ISSM Drain		1	178.00	2.10	1.40	523.32		
	For RCC Drain		1	383.00	1.24	1.40	664.41		
							1300.63	137.80	**179227.00**
	Basic Rate	130.00							
	Area Weightage @ 6%	7.80							
	Total	137.80							
2	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications No. 222/ Item No. 27.18/ PWD SR 2018-19	Cum							
	For Culverts		4	6.20	2.10	0.15	7.81		
			1	20.00	2.10	0.15	6.30		
	ISSM Drain		1	178.00	2.10	0.15	56.07		
	For RCC Drain		1	383.00	1.20	0.15	68.94		
							139.12	5421.90	**754306.00**
	Basic Rate	5115.00							
	Area Weightage @ 6%	306.90							
	Total	5421.90							
3	KSRB 5.2.3 Providing and constructing granite / trap / basalt Size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 Page No. 25/ Item No. 5.6/ PWD SR 2018-19	cum							
	Culverts		4X2	6.20	0.60	0.45	13.39		
			1x2	20.00	0.60	0.45	10.80		
	ISSM Drain		1X2	178.00	0.60	0.45	96.12		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
							120.31	4871.76	**586131.00**
	Basic Rate	4596.00							
	Area Weightage @ 6%	275.76							
	Total	4871.76							
4	KSRB 5.3-3 Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 25/ Item No. 5.9/ PWD SR 2018-19	Cum							
	Culverts		4X2	6.20	0.45	0.75	16.74		
			1x2	20.00	0.45	0.75	13.50		
	SSM Drain		1X2	178.00	0.45	0.75	120.15		
							150.39	5811.98	**874064.00**
	Basic Rate	5483.00							
	Area Weightage @ 6%	328.98							
	Total	5811.98							
5	KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 17/ Item No. 4.34/ PWD SR 2018-19	Sqm							
	For RCC Drains		2X2	383.00	0.90		1378.80		
	For Culverts		4	6.20	0.60		14.88		
	For Sides		4X2	6.20	0.23		8.56		
			4X2	1.80	0.23		2.48		
							1404.72	309.52	**434789.00**
	Basic Rate	292.00							
	Area Weightage @ 6%	17.52							
	Total	309.52							
6	KSRB 4-1.7 : : Providing and laying in position plain cement concrete of mix 1:3:6 withOPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @0.56cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2/P No. 13/ Item No. 4.7/ PWD SR 2018-19	cum							
	Culverts		4X2	6.20	0.45	0.15	3.35		
	Vent Bed		4	6.20	0.60	0.15	2.23		
			1x2	20.00	0.45	0.15	2.70		
			1	20.00	0.60	0.15	1.80		
	For Drain Side Filling		2	383.00	0.25	0.15	28.73		
	SSM Drain Coaping		2	178.00	0.45	0.10	16.02		

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	For SSM Drain Vent		1	178.00	0.60	0.10	10.68		
							65.51	5627.54	**368632.00**
	Basic Rate	5309.00							
	Area Weightage @ 6%	318.54							
	Total	5627.54							
7	KSRB 15.1.3: Providing FLush pointing to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Page No. 115/ Item No. 15.1/ PWD SR 2018-19	Sqm							
	Culverts		4X2	6.20		0.75	37.20		
			2	20.00		0.75	30.00		
			2	178.00		0.75	267.00		
							334.20	223.66	**74747.00**
	Basic Rate	211.00							
	Area Weightage @ 6%	12.66							
	Total	223.66							
8	KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, No. KBS 4.1,4.6, No. 14/ Item No. 4.11/ PWD SR 2018-19	Cum							
	For RCC Drains								
	Bottom Concrete		1	383.00	1.20	0.15	68.94		
	Side Walls		1X2	383.00	0.15	0.90	103.41		
	For Cuvlerts		4	6.20	1.80	0.23	10.27		
	Slab For Existing Culverts		11	1.80	0.60	0.23	2.73		
			7	1.80	0.60	0.23	1.74		
	Culverts		1	20.00	1.80	0.23	8.28		
	For Drain Side Filling		2	383.00	0.25	0.15	28.61		
							223.98	5998.54	**1343544.00**
	Basic Rate	5659.00							
	Area Weightage @ 6%	339.54							
	Total	5998.54							

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 Page No. 18/ Item No. 4.46.2/ PWD SR 2018-19	Tonne							
	For RCC Drain 0.070Ton/Cum		0.070	172.35			12.06		
	For Culverts 0.095 Ton/Cum		0.095	23.02			2.19		
							14.25	75223.96	**1072035.00**
	Basic Rate	70966.00							
	Area Weightage @ 6%	4257.96							
	Total	75223.96							
	Precast slab 10mm and down size for slab (including steel reinforcement) including centring and shutterng machine mixed concrete laid in layers not exceeding 15cms thick well compacted cost of all materials labour HOM of machineries curing complete as per specifications c.c 1:1.5:3 Including all cost of Matirial (DATA RATE ENCLOSED) 10cm thick RCC pre cast slab	Sqm							
	For RCC Drain		1	383.00	1.20		459.60		
	For SSM Drains		1	178.00	1.50		267.00		
							726.60	2337.00	**1698064.00**
	Data Rate	2337.00							
	KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to **wet mix macadam** specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH specification NO. 406,P No. 155/ Item No. 20.18/ PWD SR 2018-19	Cum							
	For Drain Side Filling		2	383.00	0.25	0.70	134.05		
							134.05	2001.28	**268272.00**
	Basic Rate	1888.00							
	Area Weightage @ 6%	113.28							
	Total	2001.28							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
12	5.29(b) Providing and fixing pre cast solid cement concrete kerb stones made out of C.C 1:2:4 with top and bottom width 114 and 165mm repectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork curing, including, cost of all materials, labour hire charges of machinery, loading unloading, lead and lift, transportation etc, complete. Page No. 25/ Item No. 5.30/ PWD SR 2018-19	Nos							
	Kerb Stone		1	383.00			383.00		
			1	178.00			178.00		
				l e 610.00/0.45			561.00		
							1247.00	432.48	**539303.00**
	Basic Rate	408.00							
	Area Weightage @ 6%	24.48							
	Total	432.48							
13	KSRB 15-17.5: Applying priming coat over new wood surface and / or wood based surface preparing the surface after thoroughly cleaning oil, grease, dirt, and foreign matter, sand papering and knotting ready mix paint including cost of materials, labour, complete as per specifications. Page No. 118/ Item No. 15.59 / PWD SR 2018-19	Sqm							
	Kerb Stone Painting		1	383.00		0.35	134.05		
			1	178.00		0.35	62.30		
							196.35	53.00	**10407.00**
	Basic Rate	50.00							
	Area Weightage @ 6%	3.00							
	Total	53.00							
14	KSRB 15-17.6: Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications.Page No. 119/ Item No. 15.60.1 / PWD SR 2018-19								
			1	383.00		0.35	134.05		
			1	178.00		0.35	62.30		
							196.35	102.82	**20189.00**
	Basic Rate	97.00							
	Area Weightage @ 6%	5.82							
	Total	102.82							
15	KSRRB M100-2. Loading and Unloading of stone boulders by manual means complete as per specification MORTH-100/chapter-1 Page No. 136/ Item No. 17.1/ PWD SR 2018-19	Cum							
				Qty. Vide Item No. 1			**1300.63**		
							1300.63	60.42	**78584.00**
	Basic Rate	57.00							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Area Weightage @ 6%	3.42							
	Total	60.42							
16	KSRRB M300- Wrought iron and mild steel welded work KSRRB M300-18. Wrought iron and mild steel welded work (using angles, square bars, tees and channel grills, grating frames, gates and tree guards of any size and design etc. including cost of screens and welding rods or bolts and nuts complete fixed in position but without the cost of excavation and concrete for fixing which will be paid separately complete as per specifications. Page No. 150/ Item No. 19.97/ PWD SR 2018-19	Qtl							
				0.45	0.45	21.00	**4.25**		
				59*4.25/100			**2.51**		
							2.51	7618.22	**19114.00**
	Basic Rate	7187.00							
	Area Weightage @ 6%	431.22							
	Total	7618.22							
17	KSRB13-9.4 : Providing and fixing to wall, ceiling and floor high density polyethylene pipes 6.00 kgf/sq.cm working pressure 63mm outside diameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. Page No. 96/ Item No. 13.73.2/ PWD SR 2018-19	mtr							
			1	286.00			286.00		
							286.00	394.32	**112776.00**
	Basic Rate	372.00							
	Area Weightage @ 6%	22.32							
	Total	394.32							
	RECHARGING GROUND WATER PITS								
18	KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, **in hard soil** not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(b) / 2.3.5. **Page No. 6 / Item No. 2.4 of PWD SR 2018-19**	Cum							
	Main Pit		10	3.142x1.3x1.3		3.00	39.80		
				4					
	Basic Rate	449.00					**39.80**	588.38	**23417.00**
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 Tonne / km = 38.08	38.08							
		555.08							
	Area Weightage @ 6%	33.30							
	Total	**588.38**							
19	KSRRB M2900-2.2. KSRRB M2900-2.1. Laying Reinforced cement concrete pipe NP4 / prestressed concrete pipe for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets complete as per specifications. MORTH Specification No. 2900 B. 1200 mm dia MORTH Specification No. 2900 **Pag No, 254, Item No. 34.3, PWD SR 2018-19**	m							
			10	3.00			30.00		
	Basic Rate	10145.00					**30.00**	10753.70	**322611.00**
	Area Weightage @ 6%	608.70							
	Total	**10753.70**							
20	KSRB 2.8 : Providing and **Filling in foundation with granite / trap broken metal** 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. specification. No. KBS **Page No. 7 / Item No. 2.15 of PWD SR 2018-19**								
	Rain Water Racharging Pits	Cum	10	3.142x1.0x1.0		0.45	3.53		
	Basic Rate	2429.00					**3.53**	2574.74	**9101.00**
	Area Weightage @ 6%	145.74							
	Total	**2574.74**							
21	10734 - Providing Aggregate 53 mm nominal size **(P.I / I. 24) PWD SR 2018-19**	Cum							
	Rain Water Racharging Pits Inside the Ring		10	3.142x1.0x1.0		0.45	3.53		
	Outside the Ring		10	3.142x1.0x3.0		0.45	42.42		
							45.95	1054.29	**48446.00**
22	10750 - Providing Aggregate 40 mm nominal size **(P.II / I. 25) PWD SR 2018-19**	Cum							
	Rain Water Racharging Pits		10	3.142x1.0x1.0		0.45	**3.53**	1091.43	**3858.00**
23	10749 - Providing Aggregate 20 mm nominal size **(P.II / I. 28) PWD SR 2018-19**	Cum							
	Rain Water Racharging Pits		10	3.142x1.0x1.0		0.45	**3.53**	1091.43	**3858.00**
24	10334 - Providing sand / Artifical Sand / Manufactured sand **(P.II / I. 49) PWD SR 2018-19**	Cum							

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
Rain Water Racharging Pits		10	3.142x1.0x1.0		0.30	**2.36**	1591.43	**3750.00**
				Grand Total				**8849225.00**
				12% GST Charges				1061907.00
				1% PMC Charges				88492.25
				Miscesallaneous Charges				**375.75**
								10000000.00

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BBMP, Bangalore

28/1/2020
Assistant Executive Engineer
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Technical Sanction
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